



The ILLINOIS ENGINEER

ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS
INCORPORATED

Affiliated with the National Society of Professional Engineers
614 East Green Street
Champaign, Illinois



VOLUME XXXI, NO. 6

SUMMER ISSUE

JUNE, 1955

THE ILLINOIS ENGINEER—THIS MONTH

Summer Issues

The first summer issue or "self-covered" issue appeared in June, 1946. The June, July, August, and September issues were all four pages and contained no advertising. The first Professional Directory made its appearance in November, 1946. Display advertising and the expansion to eight, twelve, and sixteen pages was inaugurated in the summer issues of 1947.

Following the established custom, this and the succeeding three issues will be self-covered.

P. E. ROBERTS, Editor.

VOX SECRETARII

by P. E. ROBERTS, Executive Secretary

The Illinois Society, while it does not have legislation which amends the Professional Engineering Act as the Engineer-in-Training did two years ago, still maintains an active interest in several Bills presently before the Legislature. Senate Bill 76, the recodification of drainage laws, has been passed by the Senate and is on second reading in the House. The Bill should have very little difficulty in being made law. Committees from both the Illinois Society and the Bar Association worked together on the details of the Bill for the past year. This is an excellent example of the way two professions can be helpful to each other. Assurances have been given that S. B. 638, the amendments to the Architectural Act, will be amended to exempt Professional and Structural Engineers from the provisions of the Act. University of Illinois Appropriation Bills which attracted so much interest during the Annual Meeting in Rockford are moving along rapidly.

The Board of Direction is meeting in Champaign on June 18th and will settle many problems referred to it by the actions of the Annual Meeting.

Visit your State Office on your next trip to Champaign. The office is above the Co-Ed Theater on East Green Street.

I hold every man a debtor to his profession;
from the which as men of course do seek to receive
countenance and profit, so ought they of duty
to endeavor themselves by way of amends
to be a help and ornament thereunto.

Sir Francis Bacon

PRESIDENT'S MESSAGE

"This Is Your Life"

The Legislative Banquet at Springfield, May 17th, was a tremendous success and I wish to compliment the various Chapters who gave of their time and finances to assure the attendance of their respective Legislators.



PRESIDENT WALLACE

And to the energetic Capital Chapter, its Officers and to the Master of Ceremonies, Clarence Klassen, the thanks and good wishes of the ISPE. The theme of a most entertaining program was "THIS IS YOUR LIFE," and I would like to ask each Member of the ISPE to consider this title as applying to your Society activities.

At some future date, when the ISPE attains its goal of membership and Professional standing that each sincere and interested Member hopes to attain, may you look back in retrospect and say, "I had a part in attaining this goal."

Someone said, "Man is composed of 65 pounds of muscle and 3 pounds of brain," and I beseech each one of you to exert not only your 3 pounds of brain but also give of your 65 pounds of muscle, by personally contacting some prospective member who is eligible for membership but has neglected to join simply because no one has taken the time or effort to go over with him the benefits and privileges he will derive as a Member of the ISPE. Thank you,

DWAIN M. WALLACE, President.

Money is what we spend for luxuries and owe for necessities.

—Universal Concrete Pipe Co.

SUBSCRIPTION RATES

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YOUR PROFESSIONAL SOCIETY

by ROYCE JOHNSON, Vice President

It is my belief that a successful professional society is one which helps its members to help themselves. Our country has prospered because of men who had enterprise, initiative and determination to help themselves and not wait for some organization to do things for them. If engineers are believers in individual enterprise rather than the welfare state, they must, if they are consistent, prefer a professional society which aids them to improve their own ability and status.

An organization which uses its group prestige and power to impress the public, employers, and even prospective members by the use of propaganda, and promises of what it as an organization can do for its members on a selfish level, is very similar to a craftsmen's union. Furthermore, an organization which serves its members principally as their combined public relations agency, placement agency, salary determining association, and lobbying representative will not appeal to a majority of engineers, since by and large they are opposed to a union type of organization. Or, am I wrong in assuming that because NSPE and ISPE are officially opposed to unions for engineers that these societies are not expected to accomplish the same ends for their members as do unions, and in much the same manner? By "same manner," I mean using the services of paid officers and headquarters staff who render service and make enough promises to make the members feel that they get a reasonable return for their dues, without participation by the members.

It seems to me that a truly professional engineer would prefer a society that primarily helps him to develop himself and aid his profession and community, and only secondarily functions as a group representative organization. A society which does not encourage the development of the capacities of its members as individuals will tend to have a leveling or averaging effect. The Founders Societies, AIEE, ASME, etc., as well as other technical societies encourage individual development and aid the profession and industry by publishing papers which are educational.

Professional Engineers' societies do not compete with the technical societies in their fields. Consequently, the PE societies must find other fields in which their members can actively participate so they will grow in professional stature, with resulting credit to themselves and the engineering profession. When we have planted and cultivated these fields, one product will be increased membership.

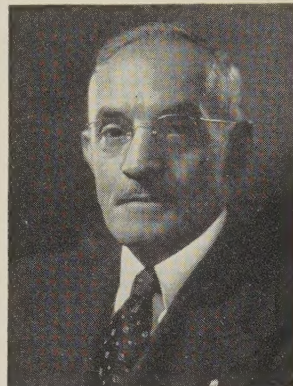
DID YOU FORGET? Dues are due on January 1st each year. The cost of maintaining the National and Illinois Societies is not large. Large or small, however, every organization needs the cooperation of its members in paying dues on time. If you forgot, please send your check to the Executive Secretary's office today.

Gustav Egloff Obituary

Dr. Gustav Egloff, S'45 N'47, one of Illinois Society's most illustrious members, died on April 29th. Dr. Egloff was director of research of Universal Oil Products, Des Plaines. He joined the company when it was a small re-

search organization in Kansas in 1915 and was its oldest employee in point of service.

Over 300 patents both in the United States and abroad had been issued to him. Of the 650 articles he authored, two were printed in the ILLINOIS ENGINEER, "Problems Requiring Engineering Society Participation" in May 1950 and "The Impact of Oil on Our Economy," in February, 1954.



GUSTAV EGLOFF

Dr. Egloff was born in New York City November 10, 1886, graduated from Cornell University in 1912 and took his graduate work at Columbia University where he received his doctorate of philosophy in 1915. During his active life honors had been conferred on him literally around the world. At the time of his untimely death he was scheduled to attend a meeting in St. Louis on May 9th to 12th and leave for Caracas, Venezuela on May 14th.

The President of Universal Oil Products has this to say about him, "Although Gustav Egloff has departed from this life it is inconceivable that he shall ever be forgotten."

REGISTRATION AT THE SEVENTIETH ANNUAL MEETING

Rockford, March 31, April 1-2, 1955

A very successful Annual Meeting was held in Rockford on the last weekend of March. Following is a breakdown by Chapters of the numbers attending. There was a total registration of 331 men and women, with a ratio of two men to one woman.

Ambraw	2	Lake County	16
Capital	13	Madison County	6
Central Illinois	13	Peoriarea	10
Champaign County	18	Rockford	140
Chicago	40	Rock River	24
DuKane	18	St. Clair	12
Egyptian	West Central	14
Illinois Valley	4		
Joliet	1	Total	331

She thinks no man is good enough for her.
She may be right.
She may be left.

—Time of Brazil, Sao Paulo.

FAITH OF THE ENGINEER

I AM AN ENGINEER. In my profession I take deep pride, but without vainglory; to it I owe solemn obligations that I am eager to fulfill.

As an Engineer, I will participate in none but honest enterprise. To him that has engaged my services, as employer or client, I will give the utmost of performance and fidelity.

When needed, my skill and knowledge shall be given without reservation for the public good. From special capacity springs the obligation to use it well in the service of humanity; and I accept the challenge that this implies.

Jealous of the high repute of my calling, I will strive to protect the interests and the good name of any engineer that I know to be deserving; but I will not shrink, should duty dictate, from disclosing the truth regarding anyone that, by unscrupulous act, has shown himself unworthy of the profession.

Since the Age of Stone, human progress has been conditioned by the genius of my professional forbears. By them have been rendered usable to mankind Nature's vast resources of material and energy. By them have been vitalized and turned to practical account the principles of science and the revelations of technology. Except for this heritage of accumulated experience, my efforts would be feeble. I dedicate myself to the dissemination of engineering knowledge, and especially to the instruction of younger members of my profession in all its arts and traditions.

To my fellows I pledge, in the same full measure I ask of them, integrity and fair dealing, tolerance and respect, and devotion to the standards and the dignity of our profession; with the consciousness, always, that our special expertness carries with it the obligation to serve humanity with complete sincerity.

BABBITTS TO BRAZIL

Secretary Emeritus H. E. Babbitt and Mrs. Babbitt have closed their apartment in Seattle, stored their furniture, and are in Rio de Janeiro, Brazil. Mr. Babbitt will spend the next two years in Rio with the Foreign Operations Administration teaching teachers.

Up until the time of his retirement last September, Professor Babbitt spent nearly forty years teaching and on the research staff of the Civil Engineering Department at the University of Illinois.

Both he and Mrs. Babbitt enjoy traveling. In the past four years they have taken a six months' house trailer trip around the United States, made a trip to Europe and another to Alaska. Their Brazil address: H. E. Babbitt, c/o P. M. A. P. O. 676, New York, N. Y.

TAXPAYERS' STRIKE

During the past few weeks the voters in Champaign-Urbana area successively rejected a \$2,000,000 sanitary sewer extension, an increase in school tax rate, and a city wheel tax. In the past it has almost been sacrilegious to reject any request for additional funds which school boards have made. The popular thing was to give them *carte blanche*. Similar conditions prevail however, with mounting tax bills, the taxpayers are becoming extremely critical of any increase.

Those activities which are tax supported and the people who administer these funds are leaning toward revenue bonds to make so-called capital improvements. Special assessments in some localities have become almost a thing of the past. Funds from gasoline tax returns and other state and federal aid are being used to rebuild streets and storm sewer systems.

Now that the taxpayer has begun to say "no," it is more apparent than ever, to be successful, an increase in taxes must be sold to the taxpayer by demonstrating that there is an absolute need for it, that the funds will be used for the benefit of the greatest number, and that the taxpayer will receive some return, either directly or indirectly. Unless the public relations job demonstrates these three points to the taxpayer, a proposed increase in taxes of any kind will meet with little support.

STOP—READ! HAVE YOU PAID YOUR DUES?

In spite of the lower value of the dollar and the third successive increase in printing costs your magazine the ILLINOIS ENGINEER has been held at high level quality.

Your annual dues have not been increased.

For these reasons, your prompt dues payment is of increasing importance. The June issue is the last which can be mailed to those who have not yet paid their 1955 dues. If you have forgotten, will you please mail your check to the Executive Secretary's office, 614 East Green Street, Champaign, today.

NEW PRESIDENT

Joseph H. Cannon (S'43) has been elected President of Clifford-Jacobs Forging Company, Champaign, Illinois. The Company makes drop forgings for the auto, farm machinery and railroad supply industry.

Joe received his B. S. in mechanical engineering from the University of Illinois in 1934 and upon graduation joined Clifford-Jacobs as a metallurgist. He was elected vice-president in 1942 and upon Mr. W. E. C. Clifford's election to Chairman of the Board in May, was elected President. Joe is a member of Champaign County Chapter and the best wishes of the Illinois Society go with him in his new responsibilities.

MEMBERSHIP

On May 27th the totals of those belonging to the Illinois Society rose to 1855. The all time high total of I. S. P. E. was reached on December 21, 1952 with 1880 of all grade on the active rolls. The total reached on May 27th this year was not reached until August 31st in 1952; therefore, from a straight line projection, it seems reasonable that a new membership high should be attained this Fall.

As President Wallace suggests in his Message this month, some muscular energy directed toward the signing up of new members will be appreciated by all. "Get in the Act" by signing up two before the Fourth of July.

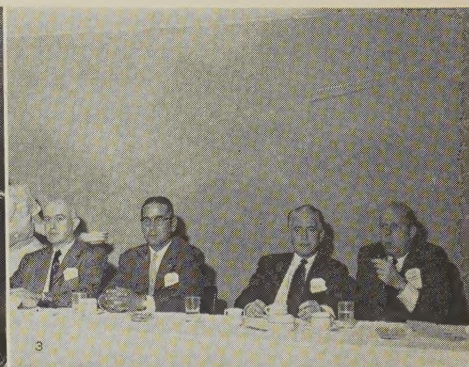
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Third Biennial Legislative Dinner

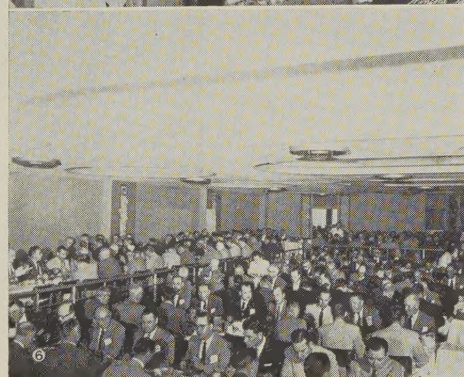
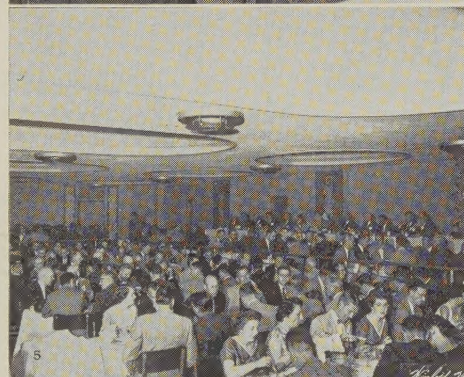


The third biennial legislative dinner was held at the Elks Club, Springfield, May 17th. Topping the total of two years ago by 100, 400 legislators and their engineering friends sat down to excellent prime ribs of beef dinners followed by most professionally done amateur entertainment. Clarence Klassen began as toastmaster and then switched to M.C.ing the entertainment, the cast of which came from the office and laboratories of the State of Illinois Department of Public Health. C. C. (Swede) Larson and his talented wife did the musical accompaniment in a show "This Is Your Life, Senator." The production was humorous and well done. Absent were the several awkward dead spots usually found in amateur entertainment.

A social hour preceded the dinner which was hosted by local contractors and material dealers. The four oases made excessive travel unnecessary. The guests and the hosts thoroughly enjoyed themselves.

At the speakers table sat Lt. Governor John W. Chapman, Speaker of the House Warren L. Wood, Secretary of State Charles Carpentier, NSPE Vice President Louis Frazza, ISPE Vice President Royce Johnson, Civil Defense Director Col. Komer, Representative Charles K. Willet, Dean Wm. L. Everitt, President Dwain Wallace and Representative C. G. Hall who gave the invocation.

A large delegation came from Chicago headed by NSPE Virgil



1. Left to right, Representative C. G. Hall, Colonel Komer, Secretary of State Charles Carpentier, NSPE Vice President Louis Frazza, ISPE Vice President Royce Johnson, Lt.-Governor John W. Chapman. 2. C. W. Klassen. 3. Representative Charles K. Willett. ISPE President Dwain Wallace, Speaker of the House, Warren L. Wood, Dean William L. Everitt. 4. William Horsely, Springfield Mayor Nelson Howarth, Senator George E. Drach. 5 and 6. General views of banquet hall.

Gunlock, Public Works Director George L. DeMent and Chicago Chapter President Harold Sommerschild. Every Chapter area was represented.

In the audience were Chief Highway Engineer Ralph R. Bartelsmeyer and his assistant Elmer Knight. Director Vera M. Binks for the Department of Registration and Education.

Audience participation previously was confined to instrumental musical offerings, two years ago by Representative Wm. Horsely and Laverne Hudson. This year some of the "brass" was asked to help out with square dancing. You know—they put on a pretty fair show.

For the record, the First Dinner was held at the Abraham Lincoln on May 1st 1951 with an official attendance of 126, the Second Dinner at the Leland Hotel on March 16, 1953 with an attendance of 300 and the Third Dinner at the Elks Club Hotel with an official attendance of 398.

These dinners are becoming to be a much appreciated occasion from both the Legislators and their engineer friends principally because there is no attempt to sell anything except good will. It has become a splendid chance for the lawmakers and the builders to get better acquainted.

Master of Ceremonies Klassen had a bad fifteen minutes when one light circuit went dead cutting the power from the microphone. He rose to the occasion once again as he so ably did in Rockford.

(Continued on page 8)

PROFESSIONAL ENGINEERS' EXAMINING COMMITTEE

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Professor of Structural Engineering
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Urbana, Illinois

Dr. Edwin R. Whitehead, Director
Department of Electrical Engineering
Illinois Institute of Technology
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Chicago 16, Illinois

Jay Clayton Marshall
914 Linden Avenue
Oak Park, Illinois

Melvin E. Amstutz
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Waukegan, Illinois

Dr. George Thodos
1725 Orrington Avenue
Evanston, Illinois

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Northern Illinois
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Room 1535
Chicago 90, Illinois

Prof. Ovid W. Eshbach
201 Kenilworth Avenue
Kenilworth, Illinois

STRUCTURAL ENGINEERS' EXAMINING COMMITTEE

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Chicago 26, Illinois

Professor Thomas Shedd
College of Engineering
University of Illinois
Urbana, Illinois

Clifford H. Westcott
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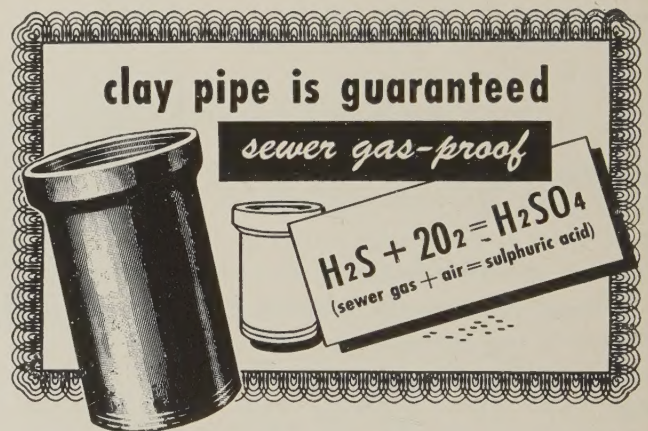
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From the 1954 Illinois Society Annual Reports

PROFESSIONAL EDUCATION COMMITTEE

by M. E. AMSTUTZ, Chairman

Your Professional Education Committee has had two meetings during the past year, one held in Springfield, the other on the campus of the Illinois Institute of Technology at Chicago.

The objectives assigned to the Committee cover a large field and will, of necessity, take considerable time to accomplish.

Your Committee is placing emphasis on better relations and closer contacts between practicing engineers and the students and faculties in our engineering schools. We presently have one student chapter, viz: Bradley University at Peoria, which has been functioning for over a year. Conversations are now being held with students at the Institute of Technology at Northwestern University and we believe a chapter will be organized there either this spring or next fall.

Arrangements have been made with the Department of Registration and Education to have the names and addresses of successful candidates for registration furnished to the Illinois Engineering Council, who, in turn, will furnish the list to the member Societies, including the ISPE.

Your Committee makes the following recommendations:

1. Individual members and chapters should make direct contacts with students from their area who are now attending engineering schools in this State to promote interest in and development of student chapters. Organized student chapters would be of inestimable value to the Society and would furnish a constant nucleus of new members. It would also be a means of bringing about closer contact between the Society, faculty members and students.
2. As soon as the Registration lists are made available to the Secretary, the names and addresses of the successful candidates should be transmitted to the local chapters and every effort should be made by the Chapter to have formal presentation ceremonies. A uniform presentation should be developed and used by each chapter. When such presentation ceremonies are held, proper publicity should be given to local newspapers and it is also suggested that pictures be taken for publication.
3. Invitations should be extended annually to members of the faculties of our four engineering schools to attend our annual meetings.
4. Officers and members of the Society, who are capable speakers, should be encouraged to speak before the students in our four engineering schools for the purpose of familiarizing the students with the objectives of the Society.

STATE ENGINEERING EMPLOYEES COMMITTEE ANNUAL REPORT

by E. R. KNIGHT, Chairman

This committee has been working primarily on one objective, namely, the merger of the Illinois Association of Highway Engineers and the Illinois Society of Professional Engineers. Statements of progress on this objective are listed below:

- 1) At our request the Board of Directors of the I. A. H. E. appointed a special committee to work jointly with this committee on the merger subject.
- 2) As a result of the joint committee meeting on October 30, 1954, the I. S. P. E. Board of Direction was requested to present to the I. A. H. E. a stated suggestion of possible assistance by the I. S. P. E. in the long-range program of the I. A. H. E.; a proposal for the I. A. H. E. to become a functional unit of the I. S. P. E.; and a suggested sales argument for the additional payment of dues by individual members of the I. A. H. E.
- 3) This proposal was presented to the Board of Directors of the I. A. H. E. through its chairman, Mr. C. R. Nicholson, on January 29, 1955.
- 4) The result of this presentation is indicated in the following note from the minutes of that meeting: "Mr. Larsen, Acting Chairman, I. S. P. E. Committee, requested the Secretary to read the minutes of the Joint Meeting of October 30, 1954, and the proposal of the I. S. P. E. as submitted by A. D. Spicer, Secretary. After some discussion, various Directors were of the opinion that the individual Chapters of I. A. H. E. would be rather reluctant to accept complete amalgamation for the fear that I. A. H. E. would lose its own identity. However, the consensus was that all Directors should encourage the I.A.H.E. members to join the I.S.P.E."

While the progress to date of the work of this committee does not indicate success in ultimate merger of I. S. P. E. and I. A. H. E., there is nevertheless indication of justification for further work on this objective. Further emphasis of this indication stems from the fact that the I.A.H.E. in electing new officers for their Board of Directors have also appointed a new committee to work jointly with this I. S. P. E. committee.

In view of the above report, it is the recommendation of the chairman of this committee that the I. S. P. E. Board of Direction give concentrated thought on further assistance to I. A. H. E. and further sales argument on the necessary increase of dues by I. A. H. E.—Non-I. S. P. E. members.

(Continued from page 5)

Capital Chapter Legislative Dinner Committee

The committee which planned and produced the Third Biennial Legislative Dinner was chairmanned by Les Ryburn. His energetic and hard-working committee was made up of William Russell, M. R. Golly, Richard Nankivil, W. W. Worsham, G. E. Rynearson, J. P. Murphy. Additional help especially in putting together the excellent entertainment was supplied by C. W. Klassen, C. C. Larson and his good wife and Lavern Hudson, plus a whole group of nice people from the State Department of Public Health. Acting as utility man on the team was Capital's President Le Sueur Hendrick who called on many Capital Chapter members for specific tasks.

Is it true that Past President Klassen is going to point-up and be Chief Engineer of the Embargo Brazier Company?

Incidentally, few people will ever plump for guaranteed annual wages—of sin.

—T. H. Thompson, Sales Mgt.

You may be able to make some people think you are younger than you are, but you can't fool a hamburger sandwich just before bedtime.

—Platteville Journal.

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JUST A REMINDER

If you have not yet paid your 1955 dues this is the last issue of the ILLINOIS ENGINEER you will receive. Article VI, Section 5 of the Illinois Society of Professional Engineers Constitution reads, "A person whose dues are in arrears for six months shall cease to receive the publication of the Society."

Send your dues check in today.

Crossing the street is a gamble. You never know what hospital they'll rush you to.

—Town Journal.

The trouble with being the best man at a wedding is that you get no chance to prove it.

—Automotive Dealer News.

COST OF LIVING INDEX

The cost of living correction factor to be applied to the I.S.P.E. Schedule of Minimum Fees and Salaries is based upon the Consumer Price Index of the 1947-49 average as determined by the Bureau of Labor Statistics. On the 1947-49 base the correction factor for April 1955 is 114.2.

Engineering Societies Personnel Service, Inc.

New York Chicago Detroit San Francisco
84 East Randolph Street, Chicago 1, Ill. STate 2-2748

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OVER THE MANAGER'S DESK

The matter of the Chicago office developing a series of charts showing salary curves for the use of employers has been discussed by the Chicago Advisory Committee and it was decided to hold it in abeyance for further study. If and when the Committee decides to publish these charts we will keep you informed as to dates of availability and the amount of the annual subscription rate to be charged for this Service.

We are beginning to get registrations for summer work for students now, so if any of you who use students in the summer have your plans formulated enough to interview these young people, we will be glad to start working on the matter as soon as you furnish us with your specifications for the positions you have in mind.

June 29th will be the last Wednesday evening we will be open until the Fall. We expect to resume the Wednesday evenings again on September 14th.

BONNELL H. ALLEN
Manager E.S.P.S.

MEN AVAILABLE

Chief Engr. M.E. 34. Four yrs. project eng. involving any steel mill activity. Four yrs. supv. of metal fabrication and plating. Two yrs. technical instructor. Four yrs. resp. for production of metal furniture. \$10,000. Midwest. 212-PE

Res. Metallurgist. Ph.D.-Physics, Chemistry. 46. Nine yrs. testing and devel. of precious metal alloys. Three yrs. chemical boiler water treatment. Two yrs. control of fermentation. Three yrs. instructor in chemical dept. \$6,000. Midwest. 213-PE

Petr. Engr. M.E. 32. 8 yrs. in Pet. Ind. handling constr. project work, design, purchasing, costs and sub-contracts. \$7800. U.S. 215-PE

Instr. Engr. Ch.E. 31. 3½ yrs. asst. general foreman charge of instrument dept. 6 yrs. calculation and maintenance of mass spectrometer, infra-red, ultra-violet spectrograph, physical testing of grease. \$7500. Midwest. 216-PE

Purchasing. Bus. Adm. 32. 53 mos. purchasing, supervising stock records and stock personnel, scheduling production. Resp. for job order cost system and standard cost system for paint mfrg. \$6500. Midwest. 217-PE

Sales Mgr. 36. 9 yrs. selling of new cars, building materials to contractors and photo and recording eqpt. to schools, churches, institutions and industrial firms. \$8000. Chicago. 218-PE

Sales Engr. I.E. 48. 9 yrs. sales of tools and machine parts, office machines, and surplus tools and machinery from inventory work. 14 mos. industrial specialist doing plant survey work. \$5000. Chicago. 219-PE

Elec. Engr. M.S. E.E. and M.E. 68. 2 yrs. design power plants and distr. for industrial plants. 5 yrs. el. plant engrg., lights and power distr. 38 yrs. research and development of el. apparatus, controls and appliances, planning and installations for industries. \$8400. Chicago. 220-PE

Petro. Engr. M.E. 28. 3½ yrs. designing pumping stations, analyzing quotes on eqpt., hydraulic computations, economic studies. 1 yr. plant maintenance. 1 yr. on drafting board. \$5500. Midwest. 221-PE

Constr. Supt. 37. 2 yrs. electrical estm. on power station and sub-station eqpt. and cable estimations. 2 yrs. layout and design of power and light. 1 yr. estimator-draftsman for constr. company. 1 yr. layout of reinforced concrete bldgs. \$6000. Chicago. 222-PE

Rodman. 26. 1 yr. surveying instruction with practical field work. \$4200. Chicago. 223-PE
Production Engr. I.E. and TV. 36. 10 mos. service man on radio and TV sets. 3 mos. set up production scheduling procedures. 6 mos. installation engr. for consulting firm. 8 mos. maintained records for mfrg. of radar. \$4200. Chicago. 224-PE

POSITIONS AVAILABLE

Sales Trainee. Chem. or Chem. Eng. Age: up to 40. Recent grads or better. Knowl: Biochemistry and foods. Duties: selling line of malts and allied products to breweries, pharmaceuticals and other industries. Recent grads. \$350 a mo. and up. Men with exp. \$625 to \$875 per mo. depending on background. Mfrg. of malt. Employer will pay fee. 30-50% traveling. Car required. Location: U.S. C-3061

Sales Engineer. M.E., E.E., I.E. Age: to 30. 2 plus yrs. exp. in sales and preferably pharmaceutical, plastics, molding or high vacuum equipment. Duties: sales of above named eqpt. to chemical and other processing industries. For mfg. process eqpt. \$500 mo. plus bonus and expenses. Employer will negotiate fee. 50% traveling-home weekends. Car required. Location: Hdq. Chicago. C-3062

Editor Electronics. Recent grads or better. Should be able to type and/or take shorthand. Knowledge of electronics. Duties: edit and rewrite technical reports, on research and development, write original re-

ports and handle technical correspondence. For a radio mfrg. Salary: \$375 to \$500 per month. Location: Chicago. C-3072

Project Engineers. (4). Grad. Mech. or Elect. Age: to 40. 5 plus yrs. exp. in automatic control field. Knowledge of refrigeration or heating desirable. Duties: Project Engrs. on des. and development of controls, automatic relays, timers, solenoids switches, etc. for small domestic appliances. Relatively new plant and modern lab. employing about 30 engineers in development section. For mfr. of controls. Salary: \$7500 to \$10,000 dep. on exp. Loc: Northern Ill., town of 4500, good facilities. C-3073

Mining Engineer. Engrg. Deg. Age: 40-45. 5 plus yrs. exp. in square set stoping mining operations of non-ferrous metals or minerals and preferably in supervisory capacity. Knowledge of square set operations and labor. Duties: Assistant to Mine Supt. in strictly underground square set non-ferrous metals operation. Must be able to take full charge if required. House and utilities furnished. For a company mining tungsten. Salary: \$600 or better. Employer will negotiate fee. Location: North Carolina. C-3081

Assayer-Tungsten. Min. E., Met. Eng. or Chem. Eng. Age: 30. 2 plus yrs. exp. in laboratory work on metal analyses and preferably non-ferrous. Duties: assisting chief assayer in running assays of tungsten and other metal. For a company mining tungsten. Sal: \$400 to 450 per month. Employer will negotiate fee. Loc: North Carolina. C-3082

Chief Ind. Age: up to 50. 5 plus yrs. exp. in supervising engineering dept. on heavy mechanical equipment. Must be good administrators. Good knowledge of combustion and mechanical engineering. Duties: supervise engineering dept. consisting of project, combustion, electrical, mechanical and product engineers on heavy industrial eqpt. For a mfr. of heavy indus. eqpt. Sal.: \$15,000 per yr. Loc.: Penn. C-3086

Insurance Technical Advisor. M.E. Age: up to 45. 3 plus yrs. exp. in research or production of electro-mechanical equipment. Installation exp. might be useful. Knowledge of electro-mechanical equipment in general. Duties: inspecting insurance risks, appraising them and adjustments on a broad type of electro-mechanical eqpt. For an industrial insurance company. Sal: \$6000 to \$9000 per yr. Employer might negotiate fee. Some traveling. Loc.: Chicago Hdq. C-3089